

PATENT

IN THE UNITED STATES

PATENT AND TRADEMARK OFFICE

APPLICANTS: Pawan Goyal, Snorri Gylfason, Xun Wilson Huang, Srinivasan
Keshav and Rosen Sharma

APPLICATION NO.: 09/611,877

FILING DATE: July 7, 2000

TITLE: Associating Identifiers With Virtual Processes

EXAMINER: Not yet known

GROUP ART UNIT: 2763

ATTY. DKT. NO.: 21816-04461 (Case 4461)

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CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner For Patents, Washington, D.C. 20231, on the date shown below:

Dated: _____

2/8/01

By: _____

A.C. Smith

Albert C. Smith, Reg. No.: 20,355

COMMISSIONER FOR PATENTS
WASHINGTON, DC. 20231

INFORMATION DISCLOSURE STATEMENT
Under 37 CFR §§ 1.56 and 1.97-98

SIR:

Pursuant to the provisions of 37 CFR §§ 1.56 and 1.97-98, enclosed herewith is modified form PTO-1449 listing references for consideration by the Examiner. A copy is enclosed herewith of each listed reference which may be material to the examination of this application, and with respect to which there may be a duty to disclose.

The filing of this Information Disclosure Statement shall not be construed as a representation regarding the completeness of the list of references, or that inclusion of a reference in this list is an admission that it is prior art or is pertinent to this application, or that a search has been made, or as an admission that the information listed is, or may be considered to be, material to patentability, or that no other material information exists, and shall not be construed as an admission against interest in any manner.

- ☐ This application relies, under 35 U.S.C. § 120, on the earlier filing date of prior application Serial No. [SERIAL NUMBER], filed on [FILING DATE], and the

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references cited therein are hereby referenced, but are not required to be provided in this application under 37 CFR § 1.98(d).

The Information Disclosure Statement submitted herewith is being filed:

- ☒ within three months of the filing date of the application, or date of entry into the national stage of an international application, or before the mailing date of a first official action on the merits, whichever event last occurred;
OR
 - ☐ before the mailing of a first official action after the filing of a request for continued examination (RCE) under 37 CFR § 1.114;
 - ☐ after three months of the filing date of this national application or the date of entry of the national stage in an international application, or after the mailing date of the first official action on the merits, whichever event last occurred, but before the mailing date of the first to occur of either:
 - (1) a final action under 37 CFR § 1.113; OR
 - (2) a notice of allowance under 37 CFR § 1.311; AND
 - ☐ attached hereto is the fee of \$180, as set forth under 37 CFR § 1.17(p), for submission of this Information Disclosure Statement under 37 CFR § 1.97(c); OR
 - ☐ Applicant certifies pursuant to 37 CFR § 1.97(e) that:
 - ☐ each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Statement; OR
 - ☐ no item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application or, to the knowledge of the person signing this certification after making reasonable inquiry, was known to any individual designated under 37 CFR § 1.56(c) more than three months prior to the filing of this Statement.
- OR
- ☐ before the payment of the issue fee but after the mailing date of the first to occur of either:
 - [1] a final action under 37 CFR § 1.113; OR
 - [2] a notice of allowance under 37 CFR § 1.311; AND

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in accordance with the requirements of 37 CFR § 1.97(d):

- ☐ Applicant certifies pursuant to 37 CFR. § 1.97(e) that:
- ☐ each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Statement; OR
- ☐ no item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application or, to the knowledge of the person signing this certification after making reasonable inquiry, was known to any individual designated under 37 CFR § 1.56(c) more than three months prior to the filing of this Statement; AND
- ☐ Applicant hereby respectfully petitions for the consideration of the accompanying Information Disclosure Statement under 37 CFR § 1.97(d)(2); AND
- ☐ Applicant submits the petition fee of \$180 as set forth in 37 CFR § 1.17(p).

☒ Applicant submits that no fee is required for the consideration of the accompanying Information Disclosure Statement.

Consideration of the listed references and favorable action are solicited.

Respectfully submitted,
PAWAN GOYAL, SNORRI GYLFASON, XUN
WILSON HUANG, SRINIVASAN KESHAV AND
ROSEN SHARMA

Dated: _____

2/8/01

By: _____

Albert C. Smith

Albert C. Smith, Reg. No.: 20,355
Fenwick & West LLP
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21816/04461/DOCS/1142227.1

Sheet 1 of 2

FORM PTO-1449 (REV. 6-89) U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)	Attorney's Docket No. 21816-04461	Serial No. 09/611,877
	Applicant Pawan Goyal et al.	
	Filing Date July 7, 2000	Group Art Unit 2763

U.S. PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate
A	6 0 7 5 9 3 8	06/13/00	Bugnion et al.	395	500.48	06/10/98

FOREIGN PATENT DOCUMENTS

Document Number	Date	Country	Class	Subclass	Translation
					Yes No

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

B	Keshav, S., <i>An Engineering Approach to Computer Networking: ATM Networks, the Internet, and the Telephone Network</i> , Reading, MA, Addison-Wesley, 1997, pp vii-xi, 85-115, 209-355, 395-444
C	Stevens, R. W., <i>UNIX Network Programming Volume 1 Networking APIs: Sockets and XTI</i> , Upper Saddle River, NJ, Prentice Hall, 1998, pp v-xiv, 29-53, 85-110, 727-760
D	Tanenbaum, A. S. and Woodhull, A. S., <i>Operating Systems: Design and Implementation</i> , Upper Saddle River, NJ, Prentice Hall, 1997, pp vii-xiv, 1-46, 401-454
E	Rubini, A., <i>LINUX Device Drivers</i> , Sebastopol, CA, O'Reilly & Associates, Inc., 1998, pp v-x, 13-40
F	Goyal, P., et al., "A Hierarchical CPU Scheduler for Multimedia Operating Systems," <i>Proceedings of the Second Symposium on Operating Systems Design and Implementations (OSDI'96)</i> , Seattle, WA, October 1996, 15 pages
G	Laurie, B. and Laurie, P., <i>Apache The Definitive Guide</i> , Sebastopol, CA, O'Reilly & Associates, Inc., February 1999, pp v-viii, 43-74
H	Aho, A. V. and Ullman J. D., <i>Principles of Compiler Design</i> , Reading, MA, 1977, pp vii-x, 359-362, 519-522
I	Jonsson, J., "Exploring the Importance of Preprocessing Operations in Real-Time Multiprocessor Scheduling," <i>Proc. of the IEEE Real-Time Systems Symposium - Work-in-Progress session</i> , San Francisco, CA, December 4, 1997, pp 31-34
J	Rusling, D. A., Processes, [online], [retrieved on 12-07-1999]. Retrieved from the Internet: <URL: http://www.cebaf.gov/~saw/linux/tlk-html/node44.html >
K	Rusling, D. A., Linux Processes, [online], [retrieved on 12-07-1999]. Retrieved from the Internet: <URL: http://www.cebaf.gov/~saw/linux/tlk-html/node45.html >
L	Rusling, D. A., Identifiers, [online], [retrieved on 12-07-1999]. Retrieved from the Internet: <URL: http://www.cebaf.gov/~saw/linux/tlk-html/node46.html >
M	Rusling, D. A., Scheduling, [online], [retrieved on 12-07-1999]. Retrieved from the Internet: <URL: http://www.cebaf.gov/~saw/linux/tlk-html/node47.html >
N	Rusling, D. A., Scheduling in Multiprocessor Systems, [online], [retrieved on 12-07-1999]. Retrieved from the Internet: <URL: http://www.cebaf.gov/~saw/linux/tlk-html/node48.html >
O	Rusling, D. A., Files, [online], [retrieved on 12-07-1999]. Retrieved from the Internet: <URL: http://www.cebaf.gov/~saw/linux/tlk-html/node49.html >

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if references considered, whether or not citation is in conformance with MPEP § 609; Draw line through citation if not in conformance and not considered.
 Include copy of this form with next communication to applicant.

 PTO-1449
 REV: 12/96

Sheet 2 of 2

FORM PTO-1449 (REV. 6-89)		U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office		Attorney's Docket No. 21816-04461		Serial No. 09/611,877	
INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)				Applicant Pawan Goyal et al.		Group Art Unit 2763	
				Filing Date July 7, 2000			
U.S. PATENT DOCUMENTS							
Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate
FOREIGN PATENT DOCUMENTS							
		Document Number	Date	Country	Class	Subclass	Translation Yes No
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)							
	P	Plummer, D. C., <i>An Ethernet Address Resolution Protocol -- or -- Converting Network Protocol Addresses to 48.bit Ethernet Address for Transmission on Ethernet Hardware</i> , November 1982, [online], [retrieved on 1-17-2000]. Retrieved from the Internet: <URL: http://www.msg.net/kadow/answers/extras/rfc/rfc826.txt >					
	Q	Huang, X. W. et al., "The ENTRAPID Protocol Development Environment," <i>Proceedings of IEEE Infocom'99</i> , March 1999, nine pages					
	R	Duffield, N.G., et al., "A Flexible Model for Resource Management in Virtual Private Networks," <i>Computer Communication Review Conference, Computer Communication, ACM SIGCOMM '99 Conference</i> , Cambridge, MA, 8/30/99-9/3/99. pp 95-108					
	S	Campbell, A. T. and Keshav, S., "Quality of Service in Distributed Systems," <i>Computer Communications</i> 21, 1998, pp 291-293					
	T	Bach, M. J., <i>The Design of the Unix® Operating System</i> , New Delhi, Prentice-Hall of India, 1989, pp v-x, 19-37					
	U	McDougall, R., et al., <i>Resource Management</i> , Upper Saddle River, NJ, Prentice Hall, 1999, pp iii-xix, 135-191					
	V	Rijsinghani, A., RFC 1624, May 1994, [online], [retrieved 02-02-2000]. retrieved from the internet: <URL: http://www.faqs.org/rfcs/rfc1624.html >					
	W	Mallory, T and Kullberg, A., RFC 1141, January 1990 [online], [retrieved 02-02-2000]. retrieved from the Internet: <URL: http://www.faqs.org/rfcs/rfc1141.html >					
	X	Egevang, K. and Francis P., RFC 1631, May 1994 [online], [retrieved 02-02-2000]. retrieved from the Internet: <URL: http://www.faqs.org/rfcs/rfc1631.html >					
EXAMINER				DATE CONSIDERED			
EXAMINER: Initial if references considered, whether or not citation is in conformance with MPEP § 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.							

21816/04461/DOCS/1142240.1

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT(S): Pawan Goyal, et al.
APPLICATION NO.: 09/611,877
FILING DATE: July 7, 2000
TITLE: Associating Identifiers With Virtual Processes
EXAMINER: Kevin Teska
GROUP ART UNIT: 2123
ATTY. DKT. NO.: 21816-04461

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner For Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on the date shown below:

Dated: 7/28/03

By:

Jeffrey Brill, Reg. No.: 51,198

COMMISSIONER FOR PATENTS
P.O. BOX 1450
ALEXANDRIA, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Under 37 CFR §§ 1.56 and 1.97-98

SIR:

Pursuant to the provisions of 37 CFR §§ 1.56 and 1.97-98, enclosed herewith is modified form PTO/SB/08A listing references for consideration by the Examiner. Enclosed is a copy of each listed reference that may be material to the examination of this application, and for which there may be a duty to disclose.

The filing of this Information Disclosure Statement shall not be construed as a representation regarding the completeness of the list of references, or that inclusion of a reference in this list is an admission that it is prior art or is pertinent to this application, or that a search has been made, or as an admission that the information listed is, or may be considered to be, material to patentability, or that no other material information exists, and shall not be construed as an admission against interest in any manner.

This Information Disclosure Statement is being filed:

- ☒ within three months of the filing date of the application, or date of entry into the national stage of an international application, or before the mailing date of a first office action on the merits, whichever event last occurred;
- ☐ before the mailing of a first official action after the filing of a request for continued examination (RCE) under 37 CFR § 1.114;

21816/04461/DOCS/1366010.1

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- ☐ after three months of the filing date of this national application or the date of entry of the national stage in an international application, or after the mailing date of the first official action on the merits, whichever event last occurred, but before the mailing date of the first to occur of either: (1) a final action under 37 CFR §1.113; or (2) an action that otherwise closes prosecution in the application, and:
- ☐ attached hereto is the fee set forth under 37 CFR §1.17(p) for submission of this Information Disclosure Statement under 37 CFR § 1.97(c); OR
- ☐ Applicant certifies pursuant to 37 CFR § 1.97(e) that:
- ☐ each item of information contained in this Information Disclosure Statement was first cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Statement; OR
- ☐ no item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application and, to the knowledge of the person signing this certification after making reasonable inquiry, no item of information contained in this Statement was known to any individual designated under 37 CFR § 1.56(c) more than three months prior to the filing of this Statement;
- ☐ on or before the payment of the issue fee but after the mailing date of the first to occur of either: (1) a final action under 37 CFR § 1.113; (2) a notice of allowance under 37 CFR § 1.311; or (3) an action that otherwise closes prosecution in the application, and:
- ☐ Applicant certifies pursuant to 37 CFR § 1.97(e) that:
- ☐ each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Statement; or
- ☐ no item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application and, to the knowledge of the person signing this

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certification after making reasonable inquiry, no item of information contained in this Statement was known to any individual designated under 37 CFR § 1.56(c) more than three months prior to the filing of this Statement; AND

- ☐ attached hereto is the fee set forth under 37 CFR §1.17(p) for submission of this Information Disclosure Statement under 37 CFR. § 1.97(c); OR
- ☐ after the payment of the issue fee. Applicant requests that the information contained in this Information Disclosure Statement be placed in the file according to 37 CFR § 1.97(i), although the information may not be considered by the USPTO.
- ☐ This application relies, under 35 U.S.C. § 120, on the earlier filing date of prior application No.[APPLICATION NUMBER], filed on [FILING DATE], and the references cited therein are hereby referenced, but are not required to be provided in this application under 37 CFR § 1.98(d).
- ☐ Each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart application, and the communication was not received by any individual designated in 37 CFR § 1.56(c) more than thirty days prior to the filing of this Information Disclosure Statement. 37 CFR § 1.704(d).
- ☒ Applicant submits that no fee is required for the consideration of this Information Disclosure Statement.

Consideration of the listed references and favorable action are solicited.

Respectfully submitted,
PAWAN GOYAL, et al.

Dated: 7/28/03

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Jeffrey Brill, Reg. No.: 51,198
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Silicon Valley Center
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Tel.: (650) 335-7291
Fax.: (650) 938-5200

PTO/SB/08A (10-01)

approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Complete if Known	
				Application No.	09/611,877
				Filing Date	July 7, 2000
				First Named Inventor	Pawan Goyal
				Art Unit	2123
				Examiner Name	Kevin Teska
Sheet	1	of	2	Attorney Docket Number	21816-04461

U.S. PATENT DOCUMENTS				
Examiner Initials*	Cite No. ¹	Document No. Number - Kind Code ² (if known)	Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document
	A	US-6,553,413	04-22-2003	Leighton et al.
	B	US-6,529,950	03-04-2003	Lumelsky et al.
	C	US-6,499,137	12-24-2002	Hunt
	D	US-6,487,578	11-29-2002	Ranganathan
	E	US-6,434,631	08-13-2002	Bruno et al.
	F	US-6,385,638	05-07-2002	Baker-Harvey
	G	US-6,363,053	03-26-2002	Schuster et al.
	H	US-6,353,616	03-05-2002	Elwalid et al.
	I	US-6,351,775	02-26-2002	Yu
	J	US-6,336,138	01-01-2002	Caswell et al.
	K	US-6,327,622	12-04-2001	Jindal et al.
	L	US-6,314,558	11-06-2001	Angel et al.
	M	US-6,286,047	09-04-2001	Ramanathan et al.
	N	US-6,282,703	08-28-2001	Meth et al.
	O	US-6,279,040	08-21-2001	Ma et al.
	P	US-6,279,039	08-21-2001	Bhat et al.
	Q	US-6,247,057	06-12-2001	Barrera
	R	US-6,240,463	05-29-2001	Benmohamed et al.
	S	US-6,230,203	05-08-2001	Koperda et al.
	T	US-6,172,981	01-09-2001	Cox et al.
	U	US-6,154,778	11-28-2000	Koistinen et al.
	V	US-6,154,776	11-28-2000	Martin
	W	US-6,108,701	08-22-2000	Davis et al.
	X	US-6,094,674	07-25-2000	Hattori, et al.
	Y	US-6,092,178	07-18-2000	Jindal et al.

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 809.

Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Applicant's unique citation designation number (optional). ²See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

21816/04461/DOCS/1366003.1

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT: Pawan Goyal et al.
APPLICATION NO.: 09/611,877
FILING DATE: July 7, 2000
TITLE: Associating Identifiers With Virtual Processes
EXAMINER: Sunray Chang
GROUP ART UNIT: 2128
ATTY. DKT. NO.: 21816-04461

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Mail Stop Amendment, Commissioner For Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on the date shown below:

Dated: 10-14-04

By:

Sabra-Anne R. Truesdale
Sabra-Anne R. Truesdale, Reg. No.: 55,687

MAIL STOP AMENDMENT
COMMISSIONER FOR PATENTS
P.O. BOX 1450
ALEXANDRIA, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT
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- ☒ after three months of the filing date of this national application or the date of entry of the national stage in an international application, or after the mailing

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date of the first official action on the merits, whichever event last occurred, but before the mailing date of the first to occur of either: (1) a final action under 37 CFR §1.113; or (2) an action that otherwise closes prosecution in the application, and:

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under 37 CFR § 1.56(c) more than three months prior to the filing of this Statement; AND

- ☐ attached hereto is the fee set forth under 37 CFR §1.17(p) for submission of this Information Disclosure Statement under 37 CFR § 1.97(c); OR
- ☐ after the payment of the issue fee. Applicant requests that the information contained in this Information Disclosure Statement be placed in the file according to 37 CFR § 1.97(i), although the information may not be considered by the USPTO.
- ☒ Enclosed is a copy of each listed reference that may be material to the examination of this application, and for which there may be a duty to disclose.
- ☐ This application relies, under 35 U.S.C. § 120, on the earlier filing date of prior application No. _____, filed on _____, and the references cited therein are hereby referenced, but are not required to be provided in this application under 37 CFR § 1.98(d).
- ☐ This application was filed after June 30, 2003. Therefore, pursuant to the waiver of the requirements under 37 CFR 1.98(a)(2)(i), copies of each U.S. Patent and each U.S. Patent Application Publication are not required to be submitted. Copies of any foreign patent documents and non-patent literature cited herein are enclosed.
- ☐ Each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart application, and the communication was not received by any individual designated in 37 CFR § 1.56(c) more than thirty days prior to the filing of this Information Disclosure Statement. 37 CFR § 1.704(d).
- ☒ Applicant submits that no fee is required for the consideration of this Information Disclosure Statement.

Consideration of the listed references and favorable action are solicited.

Respectfully submitted,
Pawan Goyal et al.

Dated: 10-14-04

By: Sabra Anne R. Truesdale
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PTO/SB/08A (10-01)

Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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Substitute for form 1449A/PTO			Complete if Known		
INFORMATION DISCLOSURE STATEMENT BY APPLICANT			Application No.	09/611,877	
			Filing Date	07/07/2000	
			First Named Inventor	Pawan Goyal	
			Art Unit	2128	
			Examiner Name	Sunray Chang	
Sheet	1	of	1	Attorney Docket Number	21816-04461

U.S. PATENT DOCUMENTS				
Examiner Initials*	Cite No.	Document No. Number - Kind Code* (if known)	Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document
		US-2003/0061338A1	03-2003	Stelliga, Tony
		US-5,189,667A	02-1993	Esaki et al.
		US-5,623,492A	04-1997	Teraslinna, Kari
		US-5,838,686A	11-1998	Ozkan, Mehmet Kemal
		US-5,889,956A	03-1999	Hauser et al.
		US-5,982,748A	11-1999	Yin et al.
		US-6,259,699B1	07-2001	Opalka et al.
		US-6,442,164B1	08-2002	Wu, Guoliang

FOREIGN PATENT DOCUMENTS					
Examiner Initials*	Cite No.†	Foreign Patent Document Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	T ⁶

OTHER REFERENCES - NON-PATENT LITERATURE DOCUMENTS				
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